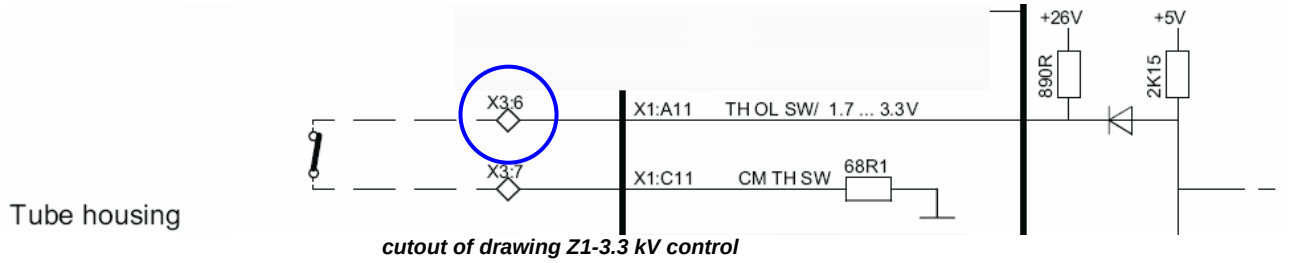
If the traffic light of the Optimus control desk

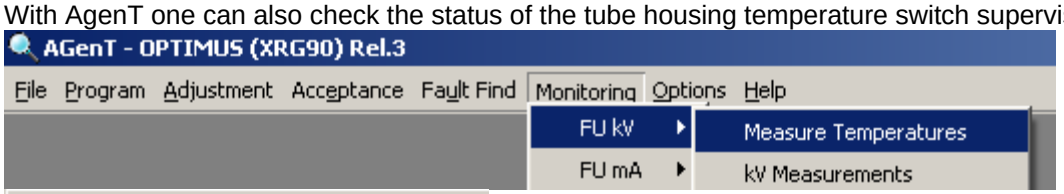
indicates **red** even though the TTS temperatures are in the low ranges there must be a problem with the tube temperature switch supervision.

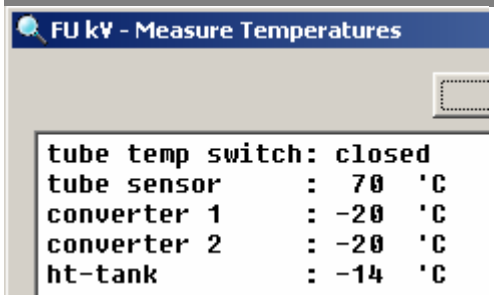


cutout of drawing Z1-3.3 kV control

A voltage of 1.7 … 3.3 VDC must be present at the input of kV-control EZ130 (or measure at the temp switch decade pin 6) to get the **green** traffic light LED on leading to a ready state.

With AgenT one can also check the status of the tube housing temperature switch supervision signal:





The good condition is "**closed**".

Two conditions lead to a **red** traffic light indication:

1) The voltage of the TH_OL_SW/ signal is below 1.7VDC.
The AgenT screen indicates "**short circuit**" for the tube temp switch condition.
An error code 00TB might be logged.

Possible reasons:
Defective cable, short to ground.
Short-circuit at micro-switches in tube housing.
Defective measuring circuit on kV-control PCB EZ130.

2) The voltage of the TH_OL_SW/ signal is > 3.3VDC.
The AgenT screen indicates "**open**" for the tube temp switch condition.
No error is logged.

Possible reasons:
Open connection anywhere between the tube temp switch decade and the tube housing micro-switches.
Defective measuring circuit on kV-control PCB EZ130.